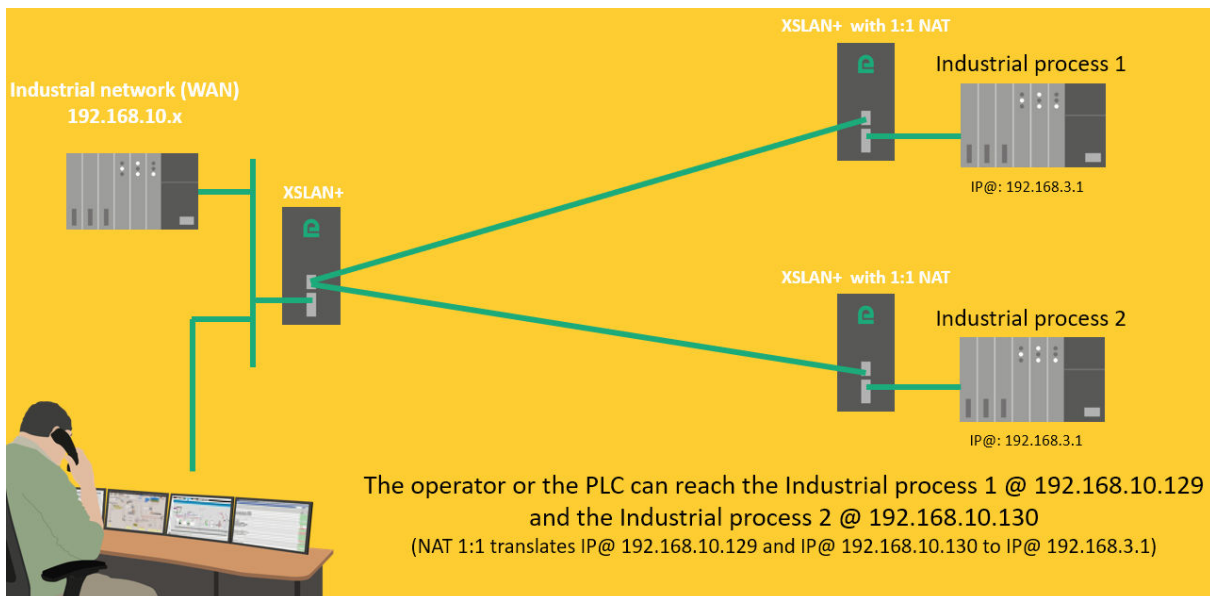# Application note

Starting with 1:1 NAT

- The 1:1 NAT solution
- Configuring the 1:1 NAT
- Hotline support during your test
- Virtual showroom

Latest update **09/14/2018**

1) THE 1:1 NAT SOLUTION

The 1:1 NAT solution makes it easy to connect several machines to an industrial network without modifying the factory IP address of each machine (see the block diagram on page 1).
It is sufficient to insert between each machine and the industrial network an XS+ configured for an address translation (NAT).

2) CONFIGURING THE 1:1 NAT

- **For the Industrial process #1**

In the « Setup » section, select « IP protocol and routing > 1:1 NAT > Add/Edit a 1:1 NAT rule » enter the 2 IP@ to set up the translation (ex: @ 192.198.10.129 translated to @ 192.168.3.1).

XSLAN+2220 SHDSL.bis switch

> Home > Setup > IP protocol and routing > 1:1 NAT > Add/Edit a 1:1 NAT rule

Save   Cancel   Page has unsaved changes

Enabled	☑
WAN IP to add	192.198.10.129
LAN IP to map on WAN	192.168.3.1

Save   Cancel   Back

The SHDSL switch must also be configured in router mode and therefore have an IP address in each network as shown below:

XSLAN+2220 SHDSL.bis switch

> Home > Setup > IP protocol and routing > IP Protocol

Save   Cancel   Page has unsaved changes

LAN ports network

Administration IP address	192.168.3.21
Netmask	255.255.255.0
Gateway	
Use a different address for the serial gateways	☐
Enable IPv6	☐

Routing between SHDSL and LAN

Router mode	☑

SHDSL ports network

IP address	192.168.10.100
Netmask	255.255.255.0
Enable IPv6 on SHDSL ports	☐

Save   Cancel

- For the **Industrial process #2**

In the « Setup » section, select « IP protocol and routing > 1:1 NAT > Add/Edit a 1:1 NAT rule » enter the 2 IP@ to set up the translation (ex: @ 192.198.10.130 translated to @ 192.168.3.1).

XSLAN+2220 SHDSL.bis switch

> Home > Setup > IP protocol and routing > 1:1 NAT > Add/Edit a 1:1 NAT rule

Save Cancel Page has unsaved changes

Enabled	☑
WAN IP to add	192.198.10.130
LAN IP to map on WAN	192.168.3.1

Save Cancel Back

The SHDSL switch must also be configured in router mode and therefore have an IP address in each network as shown below:

XSLAN+2220 SHDSL.bis switch

> Home > Setup > IP protocol and routing > IP Protocol

Save Cancel Page has unsaved changes

LAN ports network

Administration IP address	192.168.3.21
Netmask	255.255.255.0
Gateway	
Use a different address for the serial gateways	☐
Enable IPv6	☐

Routing between SHDSL and LAN

Router mode	☑

SHDSL ports network

IP address	192.168.10.101
Netmask	255.255.255.0
Enable IPv6 on SHDSL ports	☐

Save Cancel

3) HOT LINE SUPPORT DURING YOUR TEST

Feel free to contact +33 4 76 04 20 05 or hotline@etictelecom.com.

4) VIRTUAL SHOWROOM (AVAILABLE FROM THE WEBSITE HOME PAGE)

By surfing on our WEB site www.etictelecom.com (Support/Virtual Showroom) you can learn how to configure most of our products.
The following login and password may be requested: login: "etic", password: "demo".